



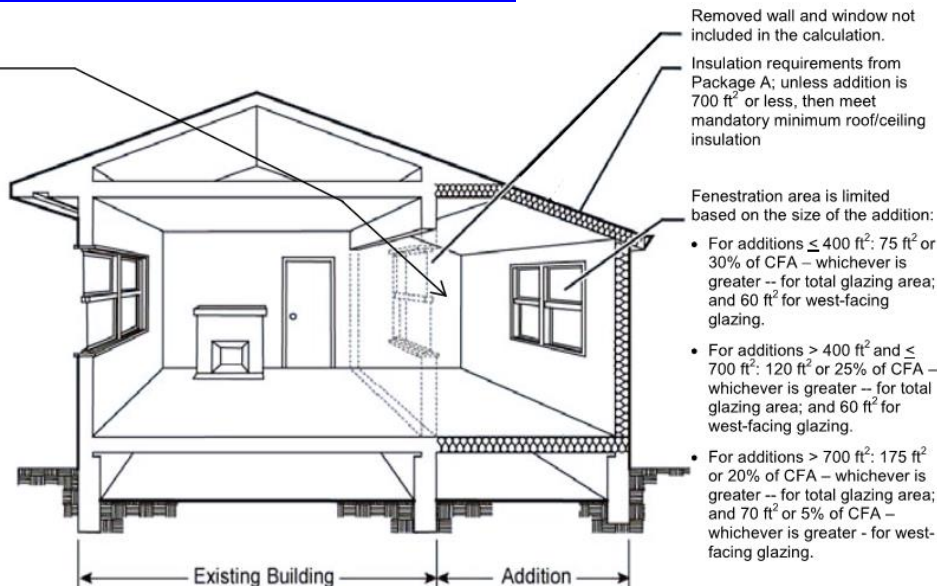
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2016 CALIFORNIA ENERGY CODE RESIDENTIAL PRESCRIPTIVE REQUIREMENTS FOR ADDITIONS & ALTERATIONS

❖ Prescriptive Requirements for Additions < 1000 ft²

To provide consistency with existing wall alignment, extensions of the existing wall into the addition shall have R-15 for 2x4 walls and R-19 for 2x6 or greater walls.



A ≤ 400 ft²

Package A exceptions allow:

- 75 ft² fenestration OR 30% of addition's CFA*
- Max west-facing fenestration 60 ft²

400 ft² < A ≤ 700 ft²

Package A exceptions allow:

- 120 ft² fenestration OR 25% of addition's CFA*
- Max west-facing fenestration 60 ft²

700 ft² < A < 1000 ft²

Package A exceptions allow:

- 175 ft² fenestration OR 20% of addition's CFA*
- Max west-facing fenestration 70 ft² OR 5%*

* Whichever is greater

A ≤ 400 ft²

Component	Standard		Comment
Ceiling Insulation	R-22 min		Mandatory Requirements
Insulation in (N) Wall - Extension of (E) Wall	R-15 (2x4) R-19 (2x6)		150.2(a)1B
(N) Wall Insulation	U = 0.051 or Less (R13+R8 or R19+R5)		Table 150.1-A
Floor Insulation	Package A min (R-19 for Raised Floor)		Table 150.1-A
Fenestration	U-factor 0.32	Max SHGC 0.25	Table 150.1-A
Maximum Glazing Area	See Table above		150.2(a)1B
Radiant Barrier	Package A (Required)		Table 150.1-A

400 ft² < A ≤ 700 ft²

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Radiant Barrier	Package A (Required)		Table 150.1-A

❖ Roof and Ceiling Requirements for Prescriptive Additions ($700 \text{ ft}^2 < A < 1000 \text{ ft}^2$)

	Option A	Option B	Option C
Roof Deck Insulations ^{1,2}	Above deck continuous insulation: R6 (with air space), R8 (no air space)	Below deck insulation: R13 (with air space), R18 (no air space)	Non Required (NOTE: This attic requires Ducts in conditioned space)
Ceiling Insulation	R38	R38	R30
Duct Location	Attic allowed	Attic allowed	Condition Space
<p>1. Roof deck insulation should be installed flush with the roof deck. Above deck insulation is applied as continuous insulation. Below deck insulation is installed in the cavities between trusses.</p> <p>2. A designed air space may exist between the roof deck and the finishing roof material, triggering lower required insulation values.</p>			

❖ Prescriptive Fenestration Requirements for Alterations

(Area of whole window, including frame)

Replace Existing Only* (No Increase in Fenestration Area)

- ❖ Vertical fen. $\leq 75 \text{ ft}^2$
U-factor ≤ 0.40
SHGC ≤ 0.35
- ❖ Vertical fen. $> 75 \text{ ft}^2$
U-factor ≤ 0.32
SHGC ≤ 0.25
- ❖ Skylights
U-factor ≤ 0.55
SHGC ≤ 0.30

Added Fenestration $1 \text{ ft}^2 \leq \text{Area} \leq 75 \text{ ft}^2$

- ❖ U-factor ≤ 0.32
SHGC ≤ 0.25
- Total and west-facing area requirements do NOT apply
- Alterations that add $\leq 16 \text{ sf}$ new skylight area with a max U-factor of 0.55 and a max SHGC of 0.30 area do NOT need to meet the total fenestration area and west-facing fenestration area required

Added Fenestration $\text{Area} \geq 75 \text{ ft}^2$

- ❖ U-factor ≤ 0.32
- ❖ SHGC ≤ 0.25
- ❖ Total area $\leq 20\%$
- ❖ West Facing Area $\leq 5\%$

*Applies even if a single window (including frame) is being replaced